

pFusionRed-Cx43 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2830; 3035
AarI	CACCTGCNNNN!	1	1388
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	3118; 4074; 5863
AatI	AGG!CCT	3	1945; 2417; 3868
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	3	1374; 1410; 2568
AccII	CG!CG	19	60; 781; 1370; 1539; 1932; 2696; 2971; 3347; 3367; 3391; 3422; 4113; 4414; 4852; 4936; 4999; 5068; 5341; 5922
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	4149
Acc36I	ACCTGCNNNN!	3	1388; 4315; 4765
Acc36I	!NNNNNNNNGCAGGT	1	3934
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	465; 813; 2042; 2102; 3200; 4046; 4081
AccB7I	CCANNNN!NTGG	1	2587
AccBSI	CCG!CTC	2	3471; 4660
AccBSI	GAG!CGG	3	2690; 3307; 4714
AceIII	CAGCTCNNNNNNN!	1	3003
AceIII	!NNNNNNNNNNGAGCTG	2	552; 1988
AciI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 879; 1717; 1930; 2301; 2439; 2541; 2694; 3362; 3365; 3379; 3469; 3717; 3729; 3738; 3750; 3760; 3771; 3817; 3956; 4019; 4521; 4566; 4632; 4658; 4783; 4786; 4934; 5066; 5373; 5517; 6013
AciI	G!CGG	31	370; 403; 528; 1269; 1370; 1602; 1970; 2136; 2448; 2490; 2690; 3307; 3334; 3422; 3532; 4113; 4177; 4278; 4281; 4561; 4616; 4714; 4852; 4999; 5139; 5382; 5627; 5748; 5767; 5894; 5922
AcI	AA!CGTT	0	
AcIWI	GGATCNNNN!	10	1542; 1612; 1980; 3915; 4226; 4472; 4864; 5223; 5321; 5407
AcIWI	!NNNNNGATCC	9	580; 1385; 1550; 1967; 2523; 4291; 4835; 5222; 5319
AcoI	Y!GGCCR	6	2646; 2691; 3953; 4127; 4518; 4545
AcsI	R!AATY	4	629; 2861; 2965; 2976
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1223; 2498; 4193; 4625
AcuI	!NNNNNNNNNNNNNCTTCAG	3	733; 1046; 5423
AcvI	CAC!GTG	1	1045
AcyI	GR!CGYC	8	122; 175; 258; 444; 2565; 4047; 4749; 4828
AdeI	CACNNN!GTG	2	2638; 3163
AfaI	GT!AC	15	219; 244; 299; 332; 383; 540; 676; 1097; 1232; 1346; 1679; 2033; 2183; 2435; 4353
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	26	49; 823; 885; 931; 1099; 1405; 1941; 2099; 2378; 2444; 2587; 3059; 3385; 3777; 4028; 4572; 4853; 4885; 5017; 5052; 5102; 5134; 5487; 5766; 5932; 5950
AflIII	C!TTAAG	1	2929
AflIII	A!CRYGT	1	5965
AgeI	A!CCGGT	1	1978
AgsI	TTS!AA	13	1214; 1228; 1241; 1306; 1492; 1522; 1627; 2065; 3458; 3502; 3512; 3925; 5501
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	1	1427
AjiI	GAC!GTG	0	
AjnI	!CCWGG	20	88; 281; 930; 997; 1404; 1672; 1959; 2163; 2307; 2322; 2451; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	1991
AlfI	GCANNNNNTGCGNNNNNNNNNNNN!	2	3621; 3693
AlfI	!NNNNNNNNNGCANNNNNNNTGC	2	3587; 3659
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	3129
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	3097
AluI	AG!CT	27	566; 618; 624; 850; 941; 953; 1138; 1159; 1362; 1504; 1684; 1736; 2002; 2029; 2175; 2482; 2826; 2993; 3250; 3545; 3833; 4153; 4611; 5408; 5665; 5711; 5801
AluBI	AG!CT	27	566; 618; 624; 850; 941; 953; 1138; 1159; 1362; 1504; 1684; 1736; 2002; 2029; 2175; 2482; 2826; 2993; 3250; 3545; 3833; 4153; 4611; 5408; 5665; 5711; 5801
AlwI	GGATCNNNN!	10	1542; 1612; 1980; 3915; 4226; 4472; 4864; 5223; 5321; 5407
AlwI	!NNNNNGATCC	9	580; 1385; 1550; 1967; 2523; 4291; 4835; 5222; 5319
Alw21I	GWGCW!C	9	620; 909; 1161; 1248; 1506; 2072; 4160; 4350; 5655
Alw26I	GTCTCN!	3	434; 1485; 1671
Alw26I	!NNNNNGAGAC	7	2420; 2510; 2609; 3471; 3889; 4908; 5036
Alw44I	G!TGCAC	2	2068; 5651
AlwNI	CAGNNN!CTG	2	5148; 5556
Ama87I	C!YCGRG	1	613
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	3615; 3687; 5149
ApaLI	G!TGCAC	2	2068; 5651
ApeKI	G!CWGC	23	636; 685; 1002; 1632; 1865; 1926; 1938; 2187; 2331; 2629; 2823; 3342; 4007; 4108; 4150; 4191; 4284; 4671; 5124; 5350; 5556; 5559; 5624
ApoI	R!AATTY	4	629; 2861; 2965; 2976
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	4562
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	4356; 5009; 5847
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	4446
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	2163
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1179; 3875
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	2	1617; 1649
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	3	682; 869; 1148
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	3	1012; 1399; 4617
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGGCC	1	779
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 610; 1066; 1391; 1535; 1556; 1605; 1973; 2503; 2529; 2705; 3885; 3889; 3908; 4219; 4297; 4378; 4387; 4465; 4841; 4857; 5216; 5228; 5306; 5314; 5325; 5400
AsiGI	A!CCGGT	1	1978
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	3	860; 1181; 4165
Asp700I	GAANN!NNTTC	1	1705
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3869; 4884
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	597; 781; 783; 1050; 1370; 1766; 1934; 2462; 2669; 3313; 3321; 3347; 3369; 3378; 3391; 3422; 4041; 4049; 4113; 4150; 4416; 4676; 4852; 4938; 5341; 5450; 5624; 5724; 5791
AspS9I	G!GNCC	19	83; 276; 862; 1057; 1102; 1168; 1577; 1900; 2138; 2381; 2473; 2494; 2578; 3154; 4563; 5008; 5054; 5112; 5145
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 4729
AsuC2I	CC!SGG	6	2214; 2562; 4051; 4211; 4824; 5588
AsuHPI	GGTGANNNNNNNN!	10	376; 839; 971; 1267; 1706; 2005; 2374; 2684; 5118; 5234

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AsuHPI	!NNNNNNNTCACC	4	1632; 2263; 3164; 4225
AsuNHI	G!CTAGC	2	591; 1736
AvaI	C!YCGRG	1	613
AvaII	G!GWCC	6	862; 1057; 1900; 2578; 4563; 5008
AviII	TGC!GCA	1	4149
AvrII	C!CTAGG	2	3869; 4884
AxyI	CC!TNAGG	3	2247; 3527; 5159
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	8	818; 1086; 2045; 2072; 2105; 3993; 4086; 5655
BalI	TGG!CCA	2	2648; 4129
BamHI	G!GATCC	1	1972
BanI	G!GYRCC	7	465; 813; 2042; 2102; 3200; 4046; 4081
BanII	GRGCY!C	7	620; 1161; 1506; 1589; 3238; 4412; 5122
BanIII	AT!CGAT	1	3887
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	1246
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1214
BasI	CCANNN!NTGG	1	2587
BauI	C!ACGAG	3	2633; 4765; 5792
BauI	C!TCGTG	3	1711; 2483; 4639
BbeI	GGCG!C	1	4050
Bbr7I	GAAGACNNNNNN!	1	2294
Bbr7I	!NNNNNNNNNNNGTCTTC	2	1301; 1502
BbrPI	CAC!GTG	1	1045
BbsI	GAAGACNN!	1	2289
BbsI	!NNNNNGTCTTC	2	1306; 1507
BbuI	GCATG!C	3	3617; 3689; 4452
BbvI	GCAGCNNNNNNN!	11	648; 697; 1938; 2199; 2641; 2835; 4120; 4162; 4683; 5136; 5636
BbvI	!NNNNNNNNNNNGCTGC	10	989; 1619; 1852; 2318; 3329; 3994; 4178; 4271; 5337; 5543
Bbv12I	GWGCW!C	9	620; 909; 1161; 1248; 1506; 2072; 4160; 4350; 5655
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	9	1043; 1451; 1597; 1808; 1901; 3177; 3741; 4267; 4769
BccI	!NNNNNGATGG	4	2669; 3145; 3925; 4353
BceAI	ACGGCNNNNNNNNNN!	8	1264; 1662; 2200; 2344; 2395; 2461; 4473; 4960
BceAI	!NNNNNNNNNNNGCCGT	4	1807; 3188; 4006; 5465
BceFI	ACGGCNNNNNNNNNN!	8	1264; 1662; 2200; 2344; 2395; 2461; 4473; 4960
BceFI	!NNNNNNNNNNNGCCGT	4	1808; 3189; 4007; 5466
BcgI	CGANNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	3476; 4266; 5767
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	2214; 2562; 4051; 4211; 4824; 5588
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	1	5900
BdaI	!NNNNNNNNNTGANNNNNTCA	1	5866
BfaI	C!TAG	9	592; 1737; 2702; 2896; 3314; 3870; 4885; 5219; 5472
BfiI	ACTGGGNNNNN!	2	1759; 3996
BfiI	!NNNNCCCAGT	2	289; 3748
BfmI	C!TRYAG	4	1759; 3382; 5509; 5700
BfoI	RGCG!Y	6	598; 2670; 3314; 3322; 4050; 5725
BfrI	C!TTAAG	1	2929
BfuI	GTATCCNNNNN!	3	3476; 4266; 5767
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	1388; 4315; 4765
BfuAI	!NNNNNNNGCAGGT	1	3934

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BfuCI	!GATC	27	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2502; 2528; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399
BglI	GCCNNNN!NGGC	5	90; 212; 283; 2457; 3822
BglII	A!GATCT	1	609
BisI	GC!NGC	44	637; 686; 1003; 1270; 1633; 1717; 1866; 1927; 1930; 1939; 2137; 2188; 2332; 2449; 2630; 2691; 2694; 2824; 3343; 3365; 3379; 3817; 3956; 4008; 4019; 4109; 4114; 4151; 4192; 4279; 4285; 4521; 4617; 4658; 4672; 4786; 5125; 5140; 5351; 5557; 5560; 5625; 5768; 5923
BlnI	C!CTAGG	2	3869; 4884
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	44	638; 687; 1004; 1271; 1634; 1718; 1867; 1928; 1931; 1940; 2138; 2189; 2333; 2450; 2631; 2692; 2695; 2825; 3344; 3366; 3380; 3818; 3957; 4009; 4020; 4110; 4115; 4152; 4193; 4280; 4286; 4522; 4618; 4659; 4673; 4787; 5126; 5141; 5352; 5558; 5561; 5626; 5769; 5924
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	6	862; 1057; 1900; 2578; 4563; 5008
Bme1390I	CC!NGG	26	90; 283; 932; 999; 1406; 1674; 1961; 2165; 2214; 2309; 2324; 2453; 2562; 3583; 3638; 3655; 4051; 4211; 4434; 4824; 5013; 5116; 5588; 5806; 5819; 5940
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	1	613
BmgBI	CAC!GTC	1	1427
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	19	84; 277; 863; 1058; 1103; 1169; 1578; 1901; 2139; 2382; 2474; 2495; 2579; 3155; 4564; 5009; 5055; 5113; 5146
BmiI	GGN!NCC	21	467; 815; 1058; 1650; 1974; 2044; 2104; 2495; 3202; 3223; 3235; 3426; 3587; 3659; 4048; 4083; 4931; 5010; 5055; 5898; 5937
BmrI	ACTGGGNNNNN!	2	1759; 3996
BmrI	!NNNNCCCAGT	2	289; 3748
BmrFI	CC!NGG	26	90; 283; 932; 999; 1406; 1674; 1961; 2165; 2214; 2309; 2324; 2453; 2562; 3583; 3638; 3655; 4051; 4211; 4434; 4824; 5013; 5116; 5588; 5806; 5819; 5940
BmsI	GCATCNNNNN!	8	1305; 2226; 2863; 3626; 3698; 4346; 4410; 4685
BmsI	!NNNNNNNNNGATGC	8	357; 1185; 2379; 2547; 4005; 4260; 4476; 5868
BmtI	GCTAG!C	2	595; 1740
BmuI	ACTGGGNNNNN!	2	1759; 3996
BmuI	!NNNNCCCAGT	2	289; 3748
BoxI	GACNN!NNGTC	1	2621
BpiI	GAAGACNN!	1	2289
BpiI	!NNNNNNGTCTTC	2	1306; 1507
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3836; 4735
BpI	!NNNNNNNNGAGNNNNNCTC	2	3804; 4703
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	4	853; 903; 1982; 4887
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	1865; 2306; 4830
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4729
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	2289
BpuAI	!NNNNNNGTCTTC	2	1306; 1507
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	4	1384; 2534; 5341; 5880
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	604; 2537; 4423; 5582
BpuMI	CC!SGG	6	2214; 2562; 4051; 4211; 4824; 5588
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	2510; 2609; 5036
Bsa29I	AT!CGAT	1	3887
BsaAI	YAC!GTR	4	340; 1045; 3163; 4351
BsaBI	GATNN!NNATC	3	1214; 2709; 3906
BsaHI	GR!CGYC	8	122; 175; 258; 444; 2565; 4047; 4749; 4828
BsaJI	C!CNNGG	25	360; 757; 840; 931; 1431; 1473; 1673; 1946; 1989; 2076; 2307; 3581; 3653; 3776; 3811; 3820; 3869; 4210; 4479; 4884; 5011; 5012; 5114; 5115; 5805

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BsaMI	GAATGCN!	2	1855; 2798
BsaMI	G!CATTC	1	2891
BsaWI	W!CCGGW	6	600; 1978; 4078; 4922; 5612; 5759
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1893; 3127
BsaXI	!NNNNNNNGGAGNNNNNGT	1	876
BsaXI	GGAGNNNNGTNNNNNNNNNN!	1	906
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1863; 3097
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTTG	2	3048; 4955
Bsc4I	CCNNNNN!NNGG	26	49; 823; 885; 931; 1099; 1405; 1941; 2099; 2378; 2444; 2587; 3059; 3385; 3777; 4028; 4572; 4853; 4885; 5017; 5052; 5102; 5134; 5487; 5766; 5932; 5950
BscAI	GCATCNNNN!	8	1304; 2225; 2862; 3625; 3697; 4345; 4409; 4684
BscAI	!NNNNNNGATGC	8	360; 1188; 2382; 2550; 4008; 4263; 4479; 5871
Bse1I	ACTGGN!	9	836; 1579; 1696; 1754; 2592; 2665; 3991; 4192; 5438
Bse1I	C!CAGT	6	295; 1339; 3076; 3754; 5550; 5563
Bse8I	GATNN!NNATC	3	1214; 2709; 3906
Bse2II	CC!TNAGG	3	2247; 3527; 5159
Bse118I	R!CCGGY	6	783; 1978; 3264; 4366; 4547; 4830
BseAI	T!CCGGA	0	
BseBI	CC!WGG	20	90; 283; 932; 999; 1406; 1674; 1961; 2165; 2309; 2324; 2453; 3583; 3638; 3655; 4434; 5013; 5116; 5806; 5819; 5940
BseCI	AT!CGAT	1	3887
BseDI	C!CNNGG	25	360; 757; 840; 931; 1431; 1473; 1673; 1946; 1989; 2076; 2307; 3581; 3653; 3776; 3811; 3820; 3869; 4210; 4479; 4884; 5011; 5012; 5114; 5115; 5805
Bse3DI	GCAATGNN!	1	4280
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	3907; 4364; 4389; 4843
BseGI	!CATCC	6	1296; 1335; 2072; 2160; 2217; 3733
BseJI	GATNN!NNATC	3	1214; 2709; 3906
BseLI	CCNNNNN!NNGG	26	49; 823; 885; 931; 1099; 1405; 1941; 2099; 2378; 2444; 2587; 3059; 3385; 3777; 4028; 4572; 4853; 4885; 5017; 5052; 5102; 5134; 5487; 5766; 5932; 5950
BseMI	GCAATGNN!	1	4280
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 5173
BseMII	!NNNNNNNNNCTGAG	9	708; 1268; 1574; 2238; 3518; 3820; 4701; 5273; 5682
BseNI	ACTGGN!	9	836; 1579; 1696; 1754; 2592; 2665; 3991; 4192; 5438
BseNI	C!CAGT	6	295; 1339; 3076; 3754; 5550; 5563
BsePI	G!CGCGC	1	779
BseRI	GAGGAGNNNNNNNNNN!	2	1169; 3865
BseRI	!NNNNNNNNNCTCCTC	2	1627; 1659
BseSI	GKGC!C	8	818; 1086; 2045; 2072; 2105; 3993; 4086; 5655
BseXI	GCAGCNNNNNNNN!	11	648; 697; 1938; 2199; 2641; 2835; 4120; 4162; 4683; 5136; 5636
BseXI	!NNNNNNNNNNNGCTGC	10	989; 1619; 1852; 2318; 3329; 3994; 4178; 4271; 5337; 5543
BseX3I	C!GGCCG	2	2691; 3953
BseYI	C!CCAGC	5	1818; 2371; 3590; 3662; 5661
BseYI	G!CTGGG	2	2409; 4551
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	19	60; 781; 1370; 1539; 1932; 2696; 2971; 3347; 3367; 3391; 3422; 4113; 4414; 4852; 4936; 4999; 5068; 5341; 5922
Bsh1285I	CGRY!CG	4	1983; 2694; 3956; 5631
BshFI	GG!CC	35	84; 277; 1103; 1169; 1325; 1578; 1790; 1945; 1951; 2139; 2382; 2417; 2451; 2474; 2496; 2606; 2648; 2693; 3013; 3155; 3810; 3816; 3825; 3868; 3955; 4129; 4520; 4547; 5056; 5113; 5146; 5491; 5925; 5943; 5954
BshNI	G!GYRCC	7	465; 813; 2042; 2102; 3200; 4046; 4081
BshTI	A!CCGGT	1	1978
BshVI	AT!CGAT	1	3887
BsiEI	CGRY!CG	4	1983; 2694; 3956; 5631
BsiHKAI	GWGCW!C	9	620; 909; 1161; 1248; 1506; 2072; 4160; 4350; 5655
BsiHKCI	C!YCGRG	1	613

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BsiSI	C!CGG	22	601; 784; 1791; 1979; 2213; 2562; 3265; 3952; 4029; 4051; 4079; 4210; 4300; 4367; 4548; 4823; 4831; 4923; 5397; 5587; 5613; 5760
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	26	49; 823; 885; 931; 1099; 1405; 1941; 2099; 2378; 2444; 2587; 3059; 3385; 3777; 4028; 4572; 4853; 4885; 5017; 5052; 5102; 5134; 5487; 5766; 5932; 5950
BsIF1	GGGACNNNNNNNNNN!	7	175; 326; 494; 949; 4198; 4730; 4839
BsIF1	!NNNNNNNNNNNNNGTCCC	5	1413; 3563; 3635; 3699; 4994
BsmI	GAATGCN!	2	1855; 2798
BsmI	G!CATTC	1	2891
BsmAI	GTCTCN!	3	434; 1485; 1671
BsmAI	!NNNNNGAGAC	7	2420; 2510; 2609; 3471; 3889; 4908; 5036
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	2420
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 949; 4198; 4730; 4839
BsmFI	!NNNNNNNNNNNNNGTCCC	5	1413; 3563; 3635; 3699; 4994
BsnI	GG!CC	35	84; 277; 1103; 1169; 1325; 1578; 1790; 1945; 1951; 2139; 2382; 2417; 2451; 2474; 2496; 2606; 2648; 2693; 3013; 3155; 3810; 3816; 3825; 3868; 3955; 4129; 4520; 4547; 5056; 5113; 5146; 5491; 5925; 5943; 5954
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	2510; 2609; 5036
BsoBI	C!YCGRG	1	613
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 1989; 3776; 4479
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4850
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	5271; 5449
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	5303; 5481
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 4818
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4729
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	27	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2502; 2528; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399
Bsp1286I	GDGCH!C	19	620; 818; 909; 1086; 1161; 1248; 1506; 1589; 2045; 2072; 2105; 3238; 3993; 4086; 4160; 4350; 4412; 5122; 5655
Bsp1407I	T!GTACA	1	2031
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 879; 1717; 1930; 2301; 2439; 2541; 2694; 3362; 3365; 3379; 3469; 3717; 3729; 3738; 3750; 3760; 3771; 3817; 3956; 4019; 4521; 4566; 4632; 4658; 4783; 4786; 4934; 5066; 5373; 5517; 6013
BspACI	G!CGG	31	370; 403; 528; 1269; 1370; 1602; 1970; 2136; 2448; 2490; 2690; 3307; 3334; 3422; 3532; 4113; 4177; 4278; 4281; 4561; 4616; 4714; 4852; 4999; 5139; 5382; 5627; 5748; 5767; 5894; 5922
BspCNI	CTCAGNNNNNNNN!	2	619; 5172
BspCNI	!NNNNNNNCTGAG	9	709; 1269; 1575; 2239; 3519; 3821; 4702; 5274; 5683
BspDI	AT!CGAT	1	3887
BspD6I	GACTCNNNN!	6	418; 612; 2706; 3120; 4726; 5603
BspD6I	!NNNNNNGAGTC	4	940; 2261; 3083; 3515
BspEI	T!CCGGA	0	
BspFNI	CG!CG	19	60; 781; 1370; 1539; 1932; 2696; 2971; 3347; 3367; 3391; 3422; 4113; 4414; 4852; 4936; 4999; 5068; 5341; 5922
BspHI	T!CATGA	2	3473; 5245
BspLI	GGN!NCC	21	467; 815; 1058; 1650; 1974; 2044; 2104; 2495; 3202; 3223; 3235; 3426; 3587; 3659; 4048; 4083; 4931; 5010; 5055; 5898; 5937
BspMI	ACCTGCNNNN!	3	1388; 4315; 4765
BspMI	!NNNNNNNNGCAGGT	1	3934
BspOI	GCTAG!C	2	595; 1740
BspPI	GGATCNNNN!	10	1542; 1612; 1980; 3915; 4226; 4472; 4864; 5223; 5321; 5407
BspPI	!NNNNNGATCC	9	580; 1385; 1550; 1967; 2523; 4291; 4835; 5222; 5319
BspQI	GCTCTCN!	2	914; 1511
BspQI	!NNNNGAAGAGC	3	1236; 4391; 4601

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspTI	C!TTAAG	1	2929
BspT104I	TT!CGAA	2	627; 4729
BspT107I	G!GYRCC	7	465; 813; 2042; 2102; 3200; 4046; 4081
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	2510; 2609; 5036
BsrI	ACTGGN!	9	836; 1579; 1696; 1754; 2592; 2665; 3991; 4192; 5438
BsrI	C!CAGT	6	295; 1339; 3076; 3754; 5550; 5563
BsrBI	CCG!CTC	2	3471; 4660
BsrBI	GAG!CGG	3	2690; 3307; 4714
BsrDI	GCAATGNN!	1	4280
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	783; 1978; 3264; 4366; 4547; 4830
BsrGI	T!GTACA	1	2031
BsrSI	ACTGGN!	9	836; 1579; 1696; 1754; 2592; 2665; 3991; 4192; 5438
BsrSI	C!CAGT	6	295; 1339; 3076; 3754; 5550; 5563
BssAI	R!CCGGY	6	783; 1978; 3264; 4366; 4547; 4830
BssECI	C!CNNGG	25	360; 757; 840; 931; 1431; 1473; 1673; 1946; 1989; 2076; 2307; 3581; 3653; 3776; 3811; 3820; 3869; 4210; 4479; 4884; 5011; 5012; 5114; 5115; 5805
BssHII	G!CGCGC	1	779
BssKI	!CCNGG	26	88; 281; 930; 997; 1404; 1672; 1959; 2163; 2212; 2307; 2322; 2451; 2560; 3581; 3636; 3653; 4049; 4209; 4432; 4822; 5011; 5114; 5586; 5804; 5817; 5938
BssMI	!GATC	27	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2502; 2528; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399
BssNI	GR!CGYC	8	122; 175; 258; 444; 2565; 4047; 4749; 4828
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	2633; 4765; 5792
BssSI	C!TCGTG	3	1711; 2483; 4639
BssT1I	C!CWVWGG	9	360; 757; 840; 1473; 1989; 3776; 3869; 4479; 4884
Bst6I	CTCTTCN!	3	914; 1307; 1511
Bst6I	!NNNNGAAGAG	6	1125; 1146; 1236; 3514; 4391; 4601
Bst98I	C!TTAAG	1	2929
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 2565; 4047; 4749; 4828
BstAFI	C!TTAAG	1	2929
BstAPI	GCANNNN!NTGC	3	3614; 3686; 5148
BstAUI	T!GTACA	1	2031
BstBI	TT!CGAA	2	627; 4729
Bst2BI	C!ACGAG	3	2633; 4765; 5792
Bst2BI	C!TCGTG	3	1711; 2483; 4639
BstBAI	YAC!GTR	4	340; 1045; 3163; 4351
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 969; 2047; 3138; 4427; 4543; 4651; 4974; 5465; 5935; 6006
BstC8I	GCN!NGC	40	86; 279; 593; 781; 785; 1274; 1738; 1742; 1788; 1815; 1924; 1936; 1943; 2000; 2090; 2294; 3266; 3309; 3323; 3596; 3615; 3668; 3687; 3941; 4127; 4346; 4412; 4418; 4446; 4450; 4495; 4549; 4832; 5019; 5066; 5122; 5144; 5355; 5915; 5952
BstDEI	C!TNAG	11	606; 717; 1277; 1583; 2247; 3527; 3829; 4710; 5159; 5282; 5691
BstDSI	C!CRYGG	5	360; 1431; 1989; 3776; 4479
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	3907; 4364; 4389; 4843
BstF5I	!CATCC	6	1296; 1335; 2072; 2160; 2217; 3733
BstFNI	CG!CG	19	60; 781; 1370; 1539; 1932; 2696; 2971; 3347; 3367; 3391; 3422; 4113; 4414; 4852; 4936; 4999; 5068; 5341; 5922
BstH2I	RGCGC!Y	6	598; 2670; 3314; 3322; 4050; 5725
BstHHI	GCG!C	29	597; 781; 783; 1050; 1370; 1766; 1934; 2462; 2669; 3313; 3321; 3347; 3369; 3378; 3391; 3422; 4041; 4049; 4113; 4150; 4416; 4676; 4852; 4938; 5341; 5450; 5624; 5724; 5791
BstKTI	GAT!C	27	588; 612; 1068; 1393; 1537; 1558; 1607; 1975; 2505; 2531; 2707; 3887; 3891; 3910; 4221; 4299; 4380; 4389; 4467; 4843; 4859; 5218; 5230; 5308; 5316; 5327; 5402
BstMAI	GTCTCN!	3	434; 1485; 1671
BstMAI	!NNNNNGAGAC	7	2420; 2510; 2609; 3471; 3889; 4908; 5036

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstMBI	!GATC	27	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2502; 2528; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399
BstMCI	CGRY!CG	4	1983; 2694; 3956; 5631
BstMWI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 904; 1204; 1584; 1819; 1923; 1935; 2026; 2457; 3274; 3304; 3331; 3373; 3614; 3686; 3737; 3816; 4038; 4122; 4145; 4284; 4407; 4490; 4757; 4944; 5148; 5347; 5919
BstNI	CC!WGG	20	90; 283; 932; 999; 1406; 1674; 1961; 2165; 2309; 2324; 2453; 3583; 3638; 3655; 4434; 5013; 5116; 5806; 5819; 5940
BstNSI	RCATG!Y	6	2020; 2466; 3617; 3689; 4452; 5969
BstOI	CC!WGG	20	90; 283; 932; 999; 1406; 1674; 1961; 2165; 2309; 2324; 2453; 3583; 3638; 3655; 4434; 5013; 5116; 5806; 5819; 5940
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	2621
BstSCI	!CCNGG	26	88; 281; 930; 997; 1404; 1672; 1959; 2163; 2212; 2307; 2322; 2451; 2560; 3581; 3636; 3653; 4049; 4209; 4432; 4822; 5011; 5114; 5586; 5804; 5817; 5938
BstSFI	C!TRYAG	4	1759; 3382; 5509; 5700
BstSLI	GKGCMI!C	8	818; 1086; 2045; 2072; 2105; 3993; 4086; 5655
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 781; 1370; 1539; 1932; 2696; 2971; 3347; 3367; 3391; 3422; 4113; 4414; 4852; 4936; 4999; 5068; 5341; 5922
Bst2UI	CC!WGG	20	90; 283; 932; 999; 1406; 1674; 1961; 2165; 2309; 2324; 2453; 3583; 3638; 3655; 4434; 5013; 5116; 5806; 5819; 5940
BstV1I	GCAGCNNNNNNN!	11	648; 697; 1938; 2199; 2641; 2835; 4120; 4162; 4683; 5136; 5636
BstV1I	!NNNNNNNNNNNGCTGC	10	989; 1619; 1852; 2318; 3329; 3994; 4178; 4271; 5337; 5543
BstV2I	GAAGACNN!	1	2289
BstV2I	!NNNNNNGTCTTC	2	1306; 1507
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 609; 1390; 1604; 1972; 2528; 4218; 4464; 4856; 5215; 5227; 5313; 5324
BstYI	R!GATCY	13	585; 609; 1390; 1604; 1972; 2528; 4218; 4464; 4856; 5215; 5227; 5313; 5324
BstZI	C!GGCCG	2	2691; 3953
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNN!	3	3476; 4266; 5767
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3887
Bsu36I	CC!TNAGG	3	2247; 3527; 5159
BsuRI	GG!CC	35	84; 277; 1103; 1169; 1325; 1578; 1790; 1945; 1951; 2139; 2382; 2417; 2451; 2474; 2496; 2606; 2648; 2693; 3013; 3155; 3810; 3816; 3825; 3868; 3955; 4129; 4520; 4547; 5056; 5113; 5146; 5491; 5925; 5943; 5954
BsuTUI	AT!CGAT	1	3887
BtgI	C!CRYGG	5	360; 1431; 1989; 3776; 4479
BtgZI	GCGATGNNNNNNNNN!	2	3164; 4499
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 4318; 4662
BthCI	GCNG!C	44	639; 688; 1005; 1272; 1635; 1719; 1868; 1929; 1932; 1941; 2139; 2190; 2334; 2451; 2632; 2693; 2696; 2826; 3345; 3367; 3381; 3819; 3958; 4010; 4021; 4111; 4116; 4153; 4194; 4281; 4287; 4523; 4619; 4660; 4674; 4788; 5127; 5142; 5353; 5559; 5562; 5627; 5770; 5925
BtrI	CAC!GTC	1	1427
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2886
BtsCI	GGATGNN!	4	3907; 4364; 4389; 4843
BtsCI	!CATCC	6	1296; 1335; 2072; 2160; 2217; 3733
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	1388; 4315; 4765
BveI	!NNNNNNNNNGCAGGT	1	3934
Cac8I	GCN!NGC	40	86; 279; 593; 781; 785; 1274; 1738; 1742; 1788; 1815; 1924; 1936; 1943; 2000; 2090; 2294; 3266; 3309; 3323; 3596; 3615; 3668; 3687; 3941; 4127; 4346; 4412; 4418; 4446; 4450; 4495; 4549; 4832; 5019; 5066; 5122; 5144; 5355; 5915; 5952
CaiI	CAGNNN!CTG	2	5148; 5556

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CciI	T!CATGA	2	3473; 5245
CciNI	GC!GGCCGC	1	2691
CdiI	CATC!G	6	352; 1897; 4336; 4341; 4539; 4680
CdiI	C!GATG	4	2430; 2611; 3150; 4485
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5919
CdpI	!NNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3708; 3750
CelII	GC!TNAGC	0	
CfoI	GCG!C	29	597; 781; 783; 1050; 1370; 1766; 1934; 2462; 2669; 3313; 3321; 3347; 3369; 3378; 3391; 3422; 4041; 4049; 4113; 4150; 4416; 4676; 4852; 4938; 5341; 5450; 5624; 5724; 5791
CfrI	Y!GGCCR	6	2646; 2691; 3953; 4127; 4518; 4545
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	6	783; 1978; 3264; 4366; 4547; 4830
Cfr13I	G!GNCC	19	83; 276; 862; 1057; 1102; 1168; 1577; 1900; 2138; 2381; 2473; 2494; 2578; 3154; 4563; 5008; 5054; 5112; 5145
Cfr42I	CCGC!GG	0	
ChaI	GATC!	27	589; 613; 1069; 1394; 1538; 1559; 1608; 1976; 2506; 2532; 2708; 3888; 3892; 3911; 4222; 4300; 4381; 4390; 4468; 4844; 4860; 5219; 5231; 5309; 5317; 5328; 5403
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	2084; 3864; 5304; 5404; 5482
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 759; 3531; 3626; 4818; 5368; 5923
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 793; 3565; 3660; 4852; 5402; 5957
CjeI	!NNNNNNNNCCANNNNNNGT	5	2050; 3830; 5270; 5370; 5448
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	4	890; 1911; 5304; 5482
CjePI	!NNNNNNNNNGANNNNNNNNTGG	5	257; 938; 1733; 4818; 5417
CjePI	GANNNNNNNNTGGNNNNNNNNNNNNNN!	5	290; 971; 1766; 4851; 5450
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	857; 1878; 5271; 5449
Clal	AT!CGAT	1	3887
CpoI	CG!GWCCG	1	4563
CseI	GACGCNNNNN!	3	526; 4757; 4836
CseI	!NNNNNNNNNNNGCGGTC	4	2554; 3380; 5275; 5853
CsiI	A!CCWGGT	2	1404; 3636
CspI	CG!GWCCG	1	4563
Csp6I	G!TAC	15	218; 243; 298; 331; 382; 539; 675; 1096; 1231; 1345; 1678; 2032; 2182; 2434; 4352
Csp45I	TT!CGAA	2	627; 4729
CspAI	A!CCGGT	1	1978
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	1	756
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	1	791
CspCI	!NNNNNNNNNNNCAANNNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	5	784; 2034; 2625; 3327; 4936
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	29	301; 361; 823; 1106; 1459; 1780; 1874; 1990; 2017; 2023; 2035; 2113; 2179; 2259; 2463; 2470; 3474; 3614; 3686; 3777; 3918; 4263; 4449; 4480; 4506; 4862; 5246; 5966; 6017
CviJI	RG!CY	125	42; 84; 93; 277; 566; 618; 624; 723; 753; 787; 850; 869; 898; 941; 953; 1002; 1103; 1138; 1159; 1169; 1272; 1325; 1362; 1504; 1578; 1587; 1632; 1649; 1684; 1736; 1790; 1822; 1885; 1892; 1922; 1929; 1945; 1951; 2002; 2029; 2092; 2139; 2168; 2175; 2253; 2319; 2331; 2375; 2382; 2409; 2417; 2451; 2474; 2482; 2496; 2606; 2642; 2648; 2693; 2716; 2826; 2993; 3013; 3155; 3236; 3250; 3264; 3545; 3586; 3658; 3781; 3810; 3816; 3825; 3833; 3856; 3868; 3874; 3955; 3972; 3980; 4007; 4032; 4116; 4125; 4129; 4153; 4191; 4267; 4284; 4303; 4366; 4410; 4420; 4437; 4520; 4547; 4551; 4588; 4611; 4627; 4807; 4834; 4895; 5017; 5056; 5113; 5120; 5127; 5146; 5157; 5408; 5437; 5480; 5491; 5556; 5635; 5660; 5665; 5711; 5801; 5899; 5925; 5943; 5954

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	125	42; 84; 93; 277; 566; 618; 624; 723; 753; 787; 850; 869; 898; 941; 953; 1002; 1103; 1138; 1159; 1169; 1272; 1325; 1362; 1504; 1578; 1587; 1632; 1649; 1684; 1736; 1790; 1822; 1885; 1892; 1922; 1929; 1945; 1951; 2002; 2029; 2092; 2139; 2168; 2175; 2253; 2319; 2331; 2375; 2382; 2409; 2417; 2451; 2474; 2482; 2496; 2606; 2642; 2648; 2693; 2716; 2826; 2993; 3013; 3155; 3236; 3250; 3264; 3545; 3586; 3658; 3781; 3810; 3816; 3825; 3833; 3856; 3868; 3874; 3955; 3972; 3980; 4007; 4032; 4116; 4125; 4129; 4153; 4191; 4267; 4284; 4303; 4366; 4410; 4420; 4437; 4520; 4547; 4551; 4588; 4611; 4627; 4807; 4834; 4895; 5017; 5056; 5113; 5120; 5127; 5146; 5157; 5408; 5437; 5480; 5491; 5556; 5635; 5660; 5665; 5711; 5801; 5899; 5925; 5943; 5954
CviQI	G!TAC	15	218; 243; 298; 331; 382; 539; 675; 1096; 1231; 1345; 1678; 2032; 2182; 2434; 4352
DdeI	C!TNAG	11	606; 717; 1277; 1583; 2247; 3527; 3829; 4710; 5159; 5282; 5691
DinI	GGC!GCC	1	4048
DpnI	GA!TC	27	587; 611; 1067; 1392; 1536; 1557; 1606; 1974; 2504; 2530; 2706; 3886; 3890; 3909; 4220; 4298; 4379; 4388; 4466; 4842; 4858; 5217; 5229; 5307; 5315; 5326; 5401
DpnII	!GATC	27	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2502; 2528; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399
DraI	TTT!AAA	5	697; 704; 2749; 5191; 5210
DraII	RG!GNCCY	2	1057; 5145
DraIII	CACNNN!GTG	2	2638; 3163
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	4	266; 1254; 2229; 5527
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	2	1077; 1452
DrdI	GACNNN!NNGTC	3	3118; 4074; 5863
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	3118; 4074; 5863
EaeI	Y!GGCCR	6	2646; 2691; 3953; 4127; 4518; 4545
EagI	C!GGCCG	2	2691; 3953
Eam1104I	CTCTCN!	3	914; 1307; 1511
Eam1104I	!NNNNGAAGAG	6	1125; 1146; 1236; 3514; 4391; 4601
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	3	914; 1307; 1511
EarI	!NNNNGAAGAG	6	1125; 1146; 1236; 3514; 4391; 4601
EciI	GGCGGANNNNNNNNNNNN!	4	3547; 4576; 5763; 5909
EciI	!NNNNNNNNNTCCGCC	4	496; 3718; 3739; 3760
Ecl136II	GAG!CTC	3	618; 1159; 1504
EclXI	C!GGCCG	2	2691; 3953
Eco24I	GRGCY!C	7	620; 1161; 1506; 1589; 3238; 4412; 5122
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	3	2510; 2609; 5036
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	6	862; 1057; 1900; 2578; 4563; 5008
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	2691; 3953
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1223; 2498; 4193; 4625
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	3	733; 1046; 5423
Eco72I	CAC!GTG	1	1045
Eco81I	CC!TNAGG	3	2247; 3527; 5159
Eco88I	C!YCGRG	1	613
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWVGG	9	360; 757; 840; 1473; 1989; 3776; 3869; 4479; 4884
Eco147I	AGG!CCT	3	1945; 2417; 3868
EcoHI	!CCSGG	6	2212; 2560; 4049; 4209; 4822; 5586
EcoICRI	GAG!CTC	3	618; 1159; 1504
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	8	853; 903; 1223; 1982; 2498; 4193; 4625; 4887
Eco57MI	!NNNNNNNNNNNNNNNNCTYCAG	6	733; 1046; 1865; 2306; 4830; 5423
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EcoO109I	RG!GNCCY	2	1057; 5145
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	20	88; 281; 930; 997; 1404; 1672; 1959; 2163; 2307; 2322; 2451; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938
EcoRV	GAT!ATC	0	
EcoT14I	C!CWVGG	9	360; 757; 840; 1473; 1989; 3776; 3869; 4479; 4884
EcoT22I	ATGCA!T	3	3619; 3691; 6022
EcoT38I	GRGCY!C	7	620; 1161; 1506; 1589; 3238; 4412; 5122
Eco53kI	GAG!CTC	3	618; 1159; 1504
EgeI	GGC!GCC	1	4048
EheI	GGC!GCC	1	4048
ErhI	C!CWVGG	9	360; 757; 840; 1473; 1989; 3776; 3869; 4479; 4884
EsaBC3I	TC!GA	18	615; 628; 1318; 1828; 2131; 2158; 2626; 3197; 3888; 4161; 4317; 4341; 4377; 4539; 4730; 4775; 5030; 5868
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	1	2420
FaeI	CATG!	29	304; 364; 826; 1109; 1462; 1783; 1877; 1993; 2020; 2026; 2038; 2116; 2182; 2262; 2466; 2473; 3477; 3617; 3689; 3780; 3921; 4266; 4452; 4483; 4509; 4865; 5249; 5969; 6020
FaiI	YA!TR	73	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 824; 914; 1020; 1070; 1107; 1116; 1353; 1460; 1664; 1781; 1875; 1991; 2018; 2024; 2036; 2114; 2180; 2260; 2278; 2464; 2471; 2524; 2709; 2719; 2785; 2830; 3035; 3463; 3475; 3606; 3615; 3678; 3687; 3711; 3778; 3802; 3919; 3983; 4264; 4289; 4450; 4481; 4507; 4579; 4795; 4863; 4941; 4993; 5154; 5171; 5173; 5175; 5247; 5525; 5714; 5830; 5903; 5967; 6018
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	4	1330; 1575; 2257; 4387
FalI	!NNNNNNNNNAAGNNNNNCTT	4	1298; 1543; 2225; 4355
FaqI	GGGACNNNNNNNNNN!	7	175; 326; 494; 949; 4198; 4730; 4839
FaqI	!NNNNNNNNNNNNNGTCCC	5	1413; 3563; 3635; 3699; 4994
FatI	!CATG	29	300; 360; 822; 1105; 1458; 1779; 1873; 1989; 2016; 2022; 2034; 2112; 2178; 2258; 2462; 2469; 3473; 3613; 3685; 3776; 3917; 4262; 4448; 4479; 4505; 4861; 5245; 5965; 6016
FauI	CCCGCNNNN!	10	93; 119; 286; 2446; 2548; 3369; 3724; 3745; 4941; 5073
FauI	!NNNNNNNGCGGG	6	2483; 3300; 4170; 4707; 4845; 4992
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	3	1374; 1410; 2568
FmuI	GGNC!C	19	86; 279; 865; 1060; 1105; 1171; 1580; 1903; 2141; 2384; 2476; 2497; 2581; 3157; 4566; 5011; 5057; 5115; 5148
Fnu4HI	GC!NGC	44	637; 686; 1003; 1270; 1633; 1717; 1866; 1927; 1930; 1939; 2137; 2188; 2332; 2449; 2630; 2691; 2694; 2824; 3343; 3365; 3379; 3817; 3956; 4008; 4019; 4109; 4114; 4151; 4192; 4279; 4285; 4521; 4617; 4658; 4672; 4786; 5125; 5140; 5351; 5557; 5560; 5625; 5768; 5923
FokI	GGATGNNNNNNNNN!	4	3914; 4371; 4396; 4850
FokI	!NNNNNNNNNNNNNCATCC	6	1283; 1322; 2059; 2147; 2204; 3720
FriOI	GRGCY!C	7	620; 1161; 1506; 1589; 3238; 4412; 5122
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4149
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1737; 2702; 2896; 3314; 3870; 4885; 5219; 5472

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	198	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 691; 737; 754; 770; 797; 830; 853; 878; 892; 938; 988; 1011; 1042; 1073; 1098; 1117; 1183; 1214; 1297; 1313; 1339; 1393; 1407; 1433; 1456; 1486; 1572; 1592; 1623; 1651; 1665; 1683; 1723; 1804; 1819; 1836; 1859; 1895; 1916; 1936; 1959; 1973; 1989; 2034; 2059; 2089; 2106; 2120; 2153; 2167; 2185; 2209; 2223; 2254; 2287; 2314; 2329; 2348; 2384; 2431; 2450; 2465; 2488; 2510; 2525; 2545; 2564; 2594; 2620; 2662; 2707; 2730; 2769; 2783; 2924; 3019; 3043; 3066; 3089; 3107; 3129; 3150; 3169; 3188; 3217; 3238; 3252; 3278; 3366; 3392; 3441; 3482; 3500; 3539; 3555; 3593; 3650; 3665; 3722; 3742; 3756; 3773; 3787; 3824; 3839; 3882; 3965; 4032; 4063; 4083; 4098; 4143; 4157; 4223; 4237; 4256; 4272; 4313; 4333; 4380; 4430; 4446; 4466; 4491; 4511; 4534; 4561; 4579; 4605; 4645; 4671; 4695; 4751; 4765; 4793; 4836; 4857; 4892; 4936; 5024; 5048; 5070; 5090; 5106; 5127; 5141; 5160; 5244; 5264; 5292; 5307; 5341; 5383; 5410; 5425; 5470; 5494; 5508; 5530; 5556; 5576; 5600; 5626; 5674; 5693; 5712; 5738; 5773; 5818; 5848; 5862; 5913; 5927; 5952; 5968; 5989; 6018
FspEI	!NNNNNNNNNNNNNNNGG	166	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 618; 638; 697; 744; 769; 796; 817; 839; 867; 917; 940; 984; 1039; 1085; 1108; 1139; 1164; 1218; 1238; 1304; 1327; 1355; 1391; 1418; 1448; 1508; 1529; 1560; 1587; 1614; 1659; 1677; 1735; 1766; 1854; 1883; 1927; 1946; 1964; 1994; 2021; 2063; 2084; 2108; 2150; 2169; 2198; 2234; 2271; 2294; 2313; 2336; 2364; 2391; 2430; 2456; 2475; 2547; 2573; 2621; 2646; 2664; 2718; 2818; 2887; 2917; 2995; 3044; 3066; 3094; 3130; 3175; 3204; 3240; 3259; 3287; 3307; 3370; 3393; 3501; 3533; 3551; 3580; 3623; 3652; 3763; 3792; 3835; 3856; 3884; 3917; 3937; 3962; 3989; 4014; 4036; 4064; 4090; 4111; 4162; 4183; 4201; 4249; 4285; 4341; 4366; 4390; 4419; 4442; 4466; 4492; 4514; 4533; 4558; 4598; 4634; 4699; 4784; 4808; 4837; 4871; 4892; 4912; 4957; 4984; 5003; 5036; 5088; 5119; 5146; 5198; 5296; 5367; 5412; 5473; 5538; 5572; 5598; 5616; 5652; 5722; 5745; 5767; 5791; 5824; 5872; 5907; 5925; 5982
Fsp4HI	GC!NGC	44	637; 686; 1003; 1270; 1633; 1717; 1866; 1927; 1930; 1939; 2137; 2188; 2332; 2449; 2630; 2691; 2694; 2824; 3343; 3365; 3379; 3817; 3956; 4008; 4019; 4109; 4114; 4151; 4192; 4279; 4285; 4521; 4617; 4658; 4672; 4786; 5125; 5140; 5351; 5557; 5560; 5625; 5768; 5923
GdiII	C!GGCCR	2	2691; 3953
GdiII	Y!GGCCG	4	2691; 3953; 4518; 4545
GlaI	GC!GC	29	596; 780; 782; 1049; 1369; 1765; 1933; 2461; 2668; 3312; 3320; 3346; 3368; 3377; 3390; 3421; 4040; 4048; 4112; 4149; 4415; 4675; 4851; 4937; 5340; 5449; 5623; 5723; 5790
GluI	GC!NGC	44	637; 686; 1003; 1270; 1633; 1717; 1866; 1927; 1930; 1939; 2137; 2188; 2332; 2449; 2630; 2691; 2694; 2824; 3343; 3365; 3379; 3817; 3956; 4008; 4019; 4109; 4114; 4151; 4192; 4279; 4285; 4521; 4617; 4658; 4672; 4786; 5125; 5140; 5351; 5557; 5560; 5625; 5768; 5923
GsaI	CCCAG!C	5	1822; 2375; 3594; 3666; 5665
GsaI	GCTGG!G	2	2413; 4555
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	4	853; 903; 1982; 4887
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	1865; 2306; 4830
HaeI	WGG!CCW	9	1325; 1945; 2417; 2648; 3868; 4129; 5491; 5943; 5954
HaeII	RGCGC!Y	6	598; 2670; 3314; 3322; 4050; 5725
HaeIII	GG!CC	35	84; 277; 1103; 1169; 1325; 1578; 1790; 1945; 1951; 2139; 2382; 2417; 2451; 2474; 2496; 2606; 2648; 2693; 3013; 3155; 3810; 3816; 3825; 3868; 3955; 4129; 4520; 4547; 5056; 5113; 5146; 5491; 5925; 5943; 5954
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	5	986; 1622; 1990; 2722; 4243
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	5	952; 1588; 1956; 2688; 4209
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	5	985; 1621; 1989; 2721; 4242
HaeIV	!NNNNNNNGAYNNNNNNRTC	5	954; 1590; 1958; 2690; 4211
HapII	C!CGG	22	601; 784; 1791; 1979; 2213; 2562; 3265; 3952; 4029; 4051; 4079; 4210; 4300; 4367; 4548; 4823; 4831; 4923; 5397; 5587; 5613; 5760
HgaI	GACGCNNNNN!	3	526; 4757; 4836
HgaI	!NNNNNNNNNGCGTC	4	2554; 3380; 5275; 5853

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HhaI	GCG!C	29	597; 781; 783; 1050; 1370; 1766; 1934; 2462; 2669; 3313; 3321; 3347; 3369; 3378; 3391; 3422; 4041; 4049; 4113; 4150; 4416; 4676; 4852; 4938; 5341; 5450; 5624; 5724; 5791
Hin1I	GR!CGYC	8	122; 175; 258; 444; 2565; 4047; 4749; 4828
Hin1III	CATG!	29	304; 364; 826; 1109; 1462; 1783; 1877; 1993; 2020; 2026; 2038; 2116; 2182; 2262; 2466; 2473; 3477; 3617; 3689; 3780; 3921; 4266; 4452; 4483; 4509; 4865; 5249; 5969; 6020
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	6	985; 1621; 1895; 1989; 2721; 4242
Hin4I	!NNNNNNNNGABNNNNNRTC	6	953; 1589; 1957; 2689; 4210; 4240
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	6	985; 1621; 1989; 2721; 4242; 4272
Hin4I	!NNNNNNNNGAYNNNNNVTC	6	953; 1589; 1863; 1957; 2689; 4210
Hin6I	G!CGC	29	595; 779; 781; 1048; 1368; 1764; 1932; 2460; 2667; 3311; 3319; 3345; 3367; 3376; 3389; 3420; 4039; 4047; 4111; 4148; 4414; 4674; 4850; 4936; 5339; 5448; 5622; 5722; 5789
HinP1I	G!CGC	29	595; 779; 781; 1048; 1368; 1764; 1932; 2460; 2667; 3311; 3319; 3345; 3367; 3376; 3389; 3420; 4039; 4047; 4111; 4148; 4414; 4674; 4850; 4936; 5339; 5448; 5622; 5722; 5789
HincII	GTY!RAC	2	1186; 2810
HindII	GTY!RAC	2	1186; 2810
HindIII	A!AGCTT	2	622; 848
HinfI	G!ANTC	18	410; 604; 921; 947; 2118; 2268; 2595; 2698; 3090; 3112; 3522; 4532; 4666; 4718; 4776; 4813; 5595; 5991
HpaI	GTT!AAC	1	2810
HpaII	C!CGG	22	601; 784; 1791; 1979; 2213; 2562; 3265; 3952; 4029; 4051; 4079; 4210; 4300; 4367; 4548; 4823; 4831; 4923; 5397; 5587; 5613; 5760
HphI	GGTGANNNNNNN!	10	376; 839; 971; 1267; 1706; 2005; 2374; 2684; 5118; 5234
HphI	!NNNNNNNTCACC	4	1632; 2263; 3164; 4225
Hpy8I	GTN!NAC	17	201; 539; 577; 1186; 1375; 1411; 1900; 2050; 2070; 2365; 2569; 2578; 2810; 3094; 3111; 3166; 5653
Hpy99I	CGWCG!	11	1841; 2132; 2612; 2627; 4137; 4165; 4459; 4474; 4751; 5136; 5869
Hpy166II	GTN!NAC	17	201; 539; 577; 1186; 1375; 1411; 1900; 2050; 2070; 2365; 2569; 2578; 2810; 3094; 3111; 3166; 5653
Hpy188I	TCN!GA	16	585; 609; 718; 920; 1065; 2077; 3221; 3830; 4014; 4358; 4711; 4812; 5291; 5425; 5778; 5856
Hpy188III	TC!NNGA	24	613; 854; 1219; 2554; 2702; 3474; 3526; 3839; 3892; 4065; 4381; 4390; 4473; 4529; 4573; 4663; 4696; 4765; 5246; 5320; 5403; 5501; 5599; 5733
HpyAV	CCTTCNNNNNN!	10	1039; 1070; 1336; 1920; 2158; 2206; 2251; 4692; 4799; 5478
HpyAV	!NNNNNGAAGG	13	654; 883; 1120; 1537; 2078; 2450; 3280; 4175; 4904; 4920; 5103; 5420; 5730
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 969; 2047; 3138; 4427; 4543; 4651; 4974; 5465; 5935; 6006
HpyCH4IV	A!CGT	22	122; 134; 175; 258; 339; 444; 1011; 1044; 1188; 1426; 1512; 2346; 2574; 2622; 3107; 3119; 3162; 3272; 4163; 4350; 5131; 5264
HpyCH4V	TG!CA	21	1198; 1383; 2070; 2392; 2508; 2796; 2823; 2891; 3608; 3617; 3680; 3689; 3804; 3880; 3939; 4098; 4273; 4287; 5357; 5653; 6020
HpyF3I	C!TNAG	11	606; 717; 1277; 1583; 2247; 3527; 3829; 4710; 5159; 5282; 5691
HpyF10VI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 904; 1204; 1584; 1819; 1923; 1935; 2026; 2457; 3274; 3304; 3331; 3373; 3614; 3686; 3737; 3816; 4038; 4122; 4145; 4284; 4407; 4490; 4757; 4944; 5148; 5347; 5919
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 2565; 4047; 4749; 4828
Hsp92II	CATG!	29	304; 364; 826; 1109; 1462; 1783; 1877; 1993; 2020; 2026; 2038; 2116; 2182; 2262; 2466; 2473; 3477; 3617; 3689; 3780; 3921; 4266; 4452; 4483; 4509; 4865; 5249; 5969; 6020
HspAI	G!CGC	29	595; 779; 781; 1048; 1368; 1764; 1932; 2460; 2667; 3311; 3319; 3345; 3367; 3376; 3389; 3420; 4039; 4047; 4111; 4148; 4414; 4674; 4850; 4936; 5339; 5448; 5622; 5722; 5789
KasI	G!GCGCC	1	4046
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
KspAI	GTT!AAC	1	2810
Kzo9I	!GATC	27	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2502; 2528; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399
LguI	GCTCTTCN!	2	914; 1511
LguI	!NNNNGAAGAGC	3	1236; 4391; 4601
LpnI	RGCI!GCY	6	596; 2668; 3312; 3320; 4048; 5723
LpnPI	CCDGNNNNNNNNNNN!	79	102; 295; 614; 737; 797; 831; 938; 1011; 1106; 1184; 1214; 1343; 1393; 1408; 1686; 1804; 1832; 1859; 1895; 1927; 1948; 1965; 1992; 2120; 2177; 2226; 2259; 2321; 2336; 2385; 2465; 2489; 2513; 2575; 2662; 2784; 3089; 3278; 3501; 3539; 3555; 3595; 3650; 3667; 3767; 3852; 3965; 4042; 4064; 4087; 4223; 4237; 4256; 4313; 4380; 4430; 4446; 4503; 4561; 4770; 4836; 4860; 4936; 5025; 5128; 5161; 5392; 5410; 5556; 5576; 5600; 5626; 5675; 5773; 5818; 5848; 5927; 5952; 5989
LpnPI	!NNNNNNNNNNNNNNCHGG	72	75; 268; 552; 586; 697; 769; 817; 839; 867; 917; 984; 1039; 1391; 1448; 1560; 1659; 1677; 1735; 1772; 1854; 1927; 1946; 1964; 2150; 2198; 2294; 2395; 2438; 2547; 2573; 2646; 3130; 3250; 3307; 3370; 3568; 3580; 3640; 3652; 3884; 3929; 3972; 4014; 4036; 4064; 4111; 4173; 4195; 4285; 4352; 4375; 4419; 4514; 4533; 4558; 4707; 4808; 4851; 4908; 4998; 5101; 5128; 5146; 5382; 5419; 5572; 5598; 5738; 5756; 5791; 5872; 5925
Lsp1109I	GCAGCNNNNNNNN!	11	648; 697; 1938; 2199; 2641; 2835; 4120; 4162; 4683; 5136; 5636
Lsp1109I	!NNNNNNNNNNNGCTGC	10	989; 1619; 1852; 2318; 3329; 3994; 4178; 4271; 5337; 5543
LweI	GCATCNNNNN!	8	1305; 2226; 2863; 3626; 3698; 4346; 4410; 4685
LweI	!NNNNNNNNNGATGC	8	357; 1185; 2379; 2547; 4005; 4260; 4476; 5868
MabI	A!CCWGGT	2	1404; 3636
MaeI	C!TAG	9	592; 1737; 2702; 2896; 3314; 3870; 4885; 5219; 5472
MaeII	A!CGT	22	122; 134; 175; 258; 339; 444; 1011; 1044; 1188; 1426; 1512; 2346; 2574; 2622; 3107; 3119; 3162; 3272; 4163; 4350; 5131; 5264
MaeIII	!GTNAC	18	61; 148; 497; 827; 983; 1687; 1694; 2269; 2465; 2835; 3336; 3348; 4167; 4473; 5163; 5429; 5545; 5608
MalI	GA!TC	27	587; 611; 1067; 1392; 1536; 1557; 1606; 1974; 2504; 2530; 2706; 3886; 3890; 3909; 4220; 4298; 4379; 4388; 4466; 4842; 4858; 5217; 5229; 5307; 5315; 5326; 5401
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	4	157; 240; 426; 1164
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3471; 4660
MbiI	GAG!CGG	3	2690; 3307; 4714
MboI	!GATC	27	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2502; 2528; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399
MboII	GAAGANNNNNNNN!	11	1142; 1163; 1253; 1560; 2294; 2407; 3303; 3531; 4408; 4618; 5237
MboII	!NNNNNNNTCTTC	10	901; 1294; 1306; 1438; 1498; 1510; 4698; 4865; 5065; 5308
McaTI	GCGC!GC	1	782
MfeI	C!AATTG	1	2797
MflI	R!GATCY	13	585; 609; 1390; 1604; 1972; 2528; 4218; 4464; 4856; 5215; 5227; 5313; 5324
MhII	GDGCH!C	19	620; 818; 909; 1086; 1161; 1248; 1506; 1589; 2045; 2072; 2105; 3238; 3993; 4086; 4160; 4350; 4412; 5122; 5655
MIsI	TGG!CCA	2	2648; 4129
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	2648; 4129
MlyI	GAGTCNNNNN!	4	956; 2277; 3099; 3531
MlyI	!NNNNNGACTC	6	404; 598; 2692; 3106; 4712; 5589
Mly113I	GG!CGCC	1	4047
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1830; 3140
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	5572; 5756
MnII	CCTCNNNNNNN!	20	764; 1310; 1430; 1648; 1680; 1720; 1956; 2151; 2220; 2330; 2345; 2428; 2561; 2766; 3830; 4648; 4854; 5168; 5538; 5862
MnII	!NNNNNGAGG	30	541; 661; 804; 878; 1116; 1147; 1257; 1312; 2032; 2071; 2092; 2125; 2242; 2351; 2407; 2596; 2629; 2672; 2726; 3191; 3522; 3800; 3843; 3858; 3898; 3962; 4098; 4455; 4885; 5788
Mph1103I	ATGCA!T	3	3619; 3691; 6022

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	783; 3264; 4547; 4830
MroXI	GAANN!NNTTC	1	1705
MscI	TGG!CCA	2	2648; 4129
MseI	T!TAA	21	7; 696; 703; 799; 1530; 2007; 2232; 2748; 2809; 2930; 2951; 2962; 2974; 2985; 3002; 3100; 3371; 5190; 5204; 5209; 5261
MslI	CAYNN!NNRTG	6	365; 1073; 1457; 1991; 2021; 4484
MspI	C!CGG	22	601; 784; 1791; 1979; 2213; 2562; 3265; 3952; 4029; 4051; 4079; 4210; 4300; 4367; 4548; 4823; 4831; 4923; 5397; 5587; 5613; 5760
Msp20I	TGG!CCA	2	2648; 4129
MspAII	CMG!CKG	7	881; 941; 2441; 3545; 4153; 5382; 5627
MspCI	C!TTAAG	1	2929
MspJI	CNNRNNNNNNNNN!	306	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 627; 640; 677; 690; 720; 736; 769; 782; 796; 829; 844; 866; 882; 925; 943; 966; 1002; 1018; 1036; 1053; 1066; 1081; 1097; 1111; 1151; 1172; 1188; 1201; 1214; 1231; 1246; 1259; 1285; 1318; 1342; 1375; 1392; 1407; 1435; 1471; 1486; 1534; 1550; 1572; 1587; 1600; 1615; 1632; 1651; 1669; 1685; 1704; 1723; 1741; 1757; 1777; 1790; 1803; 1818; 1831; 1847; 1866; 1881; 1894; 1909; 1926; 1943; 1959; 1972; 1991; 2011; 2029; 2047; 2077; 2095; 2110; 2125; 2143; 2176; 2191; 2215; 2234; 2258; 2271; 2287; 2305; 2319; 2335; 2348; 2362; 2383; 2396; 2417; 2436; 2450; 2464; 2482; 2495; 2512; 2525; 2539; 2552; 2566; 2587; 2600; 2619; 2638; 2661; 2682; 2707; 2720; 2735; 2754; 2771; 2784; 2825; 2839; 2852; 2870; 2908; 2923; 2941; 2982; 3006; 3026; 3044; 3065; 3088; 3120; 3135; 3157; 3175; 3188; 3209; 3226; 3239; 3252; 3268; 3281; 3311; 3326; 3351; 3369; 3382; 3397; 3421; 3435; 3459; 3484; 3500; 3538; 3554; 3593; 3607; 3621; 3649; 3665; 3679; 3693; 3722; 3735; 3756; 3765; 3787; 3817; 3833; 3851; 3881; 3904; 3928; 3952; 3971; 3999; 4025; 4041; 4054; 4077; 4091; 4111; 4124; 4138; 4157; 4171; 4184; 4200; 4215; 4228; 4244; 4259; 4275; 4300; 4319; 4335; 4348; 4361; 4379; 4393; 4407; 4423; 4445; 4461; 4480; 4502; 4518; 4541; 4560; 4574; 4590; 4604; 4624; 4640; 4653; 4675; 4708; 4722; 4742; 4755; 4769; 4823; 4836; 4859; 4872; 4891; 4908; 4935; 4971; 5004; 5023; 5048; 5069; 5096; 5109; 5126; 5140; 5155; 5171; 5231; 5256; 5272; 5294; 5307; 5321; 5352; 5366; 5391; 5409; 5424; 5437; 5456; 5469; 5484; 5513; 5532; 5550; 5575; 5590; 5609; 5625; 5644; 5662; 5678; 5692; 5711; 5738; 5761; 5783; 5802; 5817; 5830; 5847; 5867; 5894; 5907; 5926; 5951; 5974; 5988; 6001; 6018
MspJI	!NNNNNNNNNNNNNYNG	252	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 593; 612; 639; 698; 729; 761; 786; 804; 827; 845; 868; 888; 911; 932; 957; 984; 1005; 1029; 1049; 1067; 1085; 1103; 1130; 1157; 1175; 1205; 1233; 1259; 1279; 1296; 1316; 1338; 1355; 1381; 1411; 1445; 1470; 1487; 1508; 1526; 1551; 1570; 1587; 1643; 1660; 1678; 1697; 1715; 1736; 1766; 1796; 1821; 1855; 1875; 1900; 1917; 1934; 1955; 1976; 1994; 2021; 2051; 2075; 2093; 2117; 2136; 2158; 2189; 2208; 2232; 2265; 2294; 2336; 2358; 2391; 2411; 2438; 2456; 2473; 2491; 2519; 2540; 2561; 2585; 2607; 2630; 2647; 2673; 2699; 2728; 2757; 2799; 2882; 2917; 2944; 2967; 2996; 3040; 3062; 3094; 3130; 3147; 3168; 3205; 3225; 3242; 3259; 3294; 3312; 3330; 3347; 3371; 3393; 3420; 3448; 3474; 3512; 3533; 3550; 3568; 3591; 3612; 3640; 3663; 3684; 3702; 3723; 3740; 3763; 3787; 3807; 3825; 3847; 3878; 3900; 3926; 3945; 3962; 3990; 4009; 4028; 4046; 4064; 4085; 4107; 4131; 4164; 4184; 4202; 4223; 4249; 4276; 4293; 4310; 4327; 4353; 4375; 4397; 4415; 4435; 4454; 4476; 4514; 4534; 4558; 4578; 4598; 4625; 4649; 4682; 4701; 4729; 4751; 4780; 4808; 4833; 4852; 4871; 4892; 4909; 4926; 4957; 4984; 5004; 5027; 5047; 5084; 5101; 5120; 5146; 5166; 5205; 5232; 5251; 5269; 5306; 5324; 5365; 5383; 5409; 5426; 5458; 5487; 5515; 5536; 5559; 5578; 5599; 5617; 5634; 5652; 5678; 5699; 5719; 5739; 5757; 5778; 5804; 5821; 5840; 5859; 5888; 5907; 5925; 5944; 5962; 5980; 6003
MspR9I	CC!NGG	26	90; 283; 932; 999; 1406; 1674; 1961; 2165; 2214; 2309; 2324; 2453; 2562; 3583; 3638; 3655; 4051; 4211; 4434; 4824; 5013; 5116; 5588; 5806; 5819; 5940

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2797
MvaI	CC!WGG	20	90; 283; 932; 999; 1406; 1674; 1961; 2165; 2309; 2324; 2453; 3583; 3638; 3655; 4434; 5013; 5116; 5806; 5819; 5940
Mva1269I	GAATGCN!	2	1855; 2798
Mva1269I	G!CATTC	1	2891
MvnI	CG!CG	19	60; 781; 1370; 1539; 1932; 2696; 2971; 3347; 3367; 3391; 3422; 4113; 4414; 4852; 4936; 4999; 5068; 5341; 5922
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 904; 1204; 1584; 1819; 1923; 1935; 2026; 2457; 3274; 3304; 3331; 3373; 3614; 3686; 3737; 3816; 4038; 4122; 4145; 4284; 4407; 4490; 4757; 4944; 5148; 5347; 5919
NaeI	GCC!GGC	4	785; 3266; 4549; 4832
NarI	GG!CGCC	1	4047
NciI	CC!SGG	6	2214; 2562; 4051; 4211; 4824; 5588
NcoI	C!CATGG	4	360; 1989; 3776; 4479
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2502; 2528; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	3	280; 733; 844
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	2	1293; 2109
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	2	1329; 2145
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	3	244; 697; 808
NgoMIV	G!CCGGC	4	783; 3264; 4547; 4830
NheI	G!CTAGC	2	591; 1736
NlaIII	CATG!	29	304; 364; 826; 1109; 1462; 1783; 1877; 1993; 2020; 2026; 2038; 2116; 2182; 2262; 2466; 2473; 3477; 3617; 3689; 3780; 3921; 4266; 4452; 4483; 4509; 4865; 5249; 5969; 6020
NlaIV	GGN!NCC	21	467; 815; 1058; 1650; 1974; 2044; 2104; 2495; 3202; 3223; 3235; 3426; 3587; 3659; 4048; 4083; 4931; 5010; 5055; 5898; 5937
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2879; 3194; 4786
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	6	347; 942; 1100; 2369; 2655; 5858
Nli3877I	CYCGR!G	1	617
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3836; 4272
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	3	1927; 2385; 3801
NmeDI	RCCGGYNNNNNNN!	6	795; 1990; 3276; 4378; 4559; 4842
NmeDI	!NNNNNNNNNNNNRCCGGY	6	770; 1965; 3251; 4353; 4534; 4817
NmuCI	!GTSAC	7	827; 1694; 2269; 2465; 3336; 4167; 4473
NotI	GC!GGCCGC	1	2691
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4149
NsiI	ATGCA!T	3	3619; 3691; 6022
NspI	RCATG!Y	6	2020; 2466; 3617; 3689; 4452; 5969
NspV	TT!CGAA	2	627; 4729
OliI	CACNN!NNGTG	1	1991
PabI	GTA!C	15	220; 245; 300; 333; 384; 541; 677; 1098; 1233; 1347; 1680; 2034; 2184; 2436; 4354
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3617; 3689; 4452
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	3473; 5245
PalAI	GG!CGCGCC	1	779
PasI	CC!CWGGG	2	5012; 5115
PauI	G!CGCGC	1	779
PceI	AGG!CCT	3	1945; 2417; 3868
PciI	A!CATGT	1	5965
PciSI	GCTCTCN!	2	914; 1511
PciSI	!NNNNGAAGAGC	3	1236; 4391; 4601
PcsI	WCGNNNN!NNNCGW	9	1185; 1833; 2631; 4341; 4418; 4661; 4735; 5128; 5646
PctI	GAATGCN!	2	1855; 2798
PctI	G!CATTC	1	2891
PdiI	GCC!GGC	4	785; 3266; 4549; 4832
PdmI	GAANN!NNTTC	1	1705

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PfeI	G!AWTC	8	921; 2118; 2595; 4532; 4666; 4776; 4813; 5991
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	3	860; 1181; 4165
PfIMI	CCANNNN!NTGG	1	2587
PfoI	T!CCNGGA	2	2322; 4822
PhoI	GG!CC	35	84; 277; 1103; 1169; 1325; 1578; 1790; 1945; 1951; 2139; 2382; 2417; 2451; 2474; 2496; 2606; 2648; 2693; 3013; 3155; 3810; 3816; 3825; 3868; 3955; 4129; 4520; 4547; 5056; 5113; 5146; 5491; 5925; 5943; 5954
PinAI	A!CCGGT	1	1978
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	2	1317; 4428
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	1933; 3993; 4248
PleI	GAGTCNNNN!	4	955; 2276; 3098; 3530
PleI	!NNNNNGACTC	6	404; 598; 2692; 3106; 4712; 5589
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1045
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	1045
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	3129
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	5259
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	5291
PpiI	!NNNNNNNGAACNNNNNNCTC	1	3097
Ppsi	GAGTCNNNN!	4	955; 2276; 3098; 3530
Ppsi	!NNNNNGACTC	6	404; 598; 2692; 3106; 4712; 5589
Ppu10I	A!TGCAT	3	3615; 3687; 6018
Ppu21I	YAC!GTR	4	340; 1045; 3163; 4351
PpuMI	RG!GWCCY	1	1057
PscI	A!CATGT	1	5965
PshAI	GACN!NNGTC	1	2621
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2830; 3035
Psp03I	GGWC!C	6	865; 1060; 1903; 2581; 4566; 5011
Psp5II	RG!GWCCY	1	1057
Psp6I	!CCWGG	20	88; 281; 930; 997; 1404; 1672; 1959; 2163; 2307; 2322; 2451; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	3	620; 1161; 1506
PspCI	CAC!GTG	1	1045
PspEI	G!GTNACC	0	
PspGI	!CCWGG	20	88; 281; 930; 997; 1404; 1672; 1959; 2163; 2307; 2322; 2451; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	21	467; 815; 1058; 1650; 1974; 2044; 2104; 2495; 3202; 3223; 3235; 3426; 3587; 3659; 4048; 4083; 4931; 5010; 5055; 5898; 5937
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	4	125; 1842; 3777; 4776
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	1731; 4179
PspPI	G!GNCC	19	83; 276; 862; 1057; 1102; 1168; 1577; 1900; 2138; 2381; 2473; 2494; 2578; 3154; 4563; 5008; 5054; 5112; 5145
PspPPI	RG!GWCCY	1	1057
PspPRI	CCYAGNNNNNNNNNNNNNNNNNN!	3	3600; 3672; 5178
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	4	918; 2233; 3513; 4708
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
Pssi	RGGNC!CY	2	1060; 5148
PstI	CTGCA!G	0	
PstNI	CAGNN!CTG	2	5148; 5556
PsuI	R!GATCY	13	585; 609; 1390; 1604; 1972; 2528; 4218; 4464; 4856; 5215; 5227; 5313; 5324
PsyI	GACN!NNGTC	3	860; 1181; 4165
PteI	G!CGCGC	1	779
PvuI	CGAT!CG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PvuII	CAG!CTG	3	941; 3545; 4153
RcaI	T!CATGA	2	3473; 5245
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4562
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	2	1102; 2776
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	15	219; 244; 299; 332; 383; 540; 676; 1097; 1232; 1346; 1679; 2033; 2183; 2435; 4353
RsaNI	G!TAC	15	218; 243; 298; 331; 382; 539; 675; 1096; 1231; 1345; 1678; 2032; 2182; 2434; 4352
RseI	CAYNN!NNRTG	6	365; 1073; 1457; 1991; 2021; 4484
RsrII	CG!GWCCG	1	4563
Rsr2I	CG!GWCCG	1	4563
SacI	GAGCT!C	3	620; 1161; 1506
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	2	914; 1511
SapI	!NNNNGAAGAGC	3	1236; 4391; 4601
SaqAI	T!TAA	21	7; 696; 703; 799; 1530; 2007; 2232; 2748; 2809; 2930; 2951; 2962; 2974; 2985; 3002; 3100; 3371; 5190; 5204; 5209; 5261
SatI	GC!NGC	44	637; 686; 1003; 1270; 1633; 1717; 1866; 1927; 1930; 1939; 2137; 2188; 2332; 2449; 2630; 2691; 2694; 2824; 3343; 3365; 3379; 3817; 3956; 4008; 4019; 4109; 4114; 4151; 4192; 4279; 4285; 4521; 4617; 4658; 4672; 4786; 5125; 5140; 5351; 5557; 5560; 5625; 5768; 5923
Sau96I	G!GNCC	19	83; 276; 862; 1057; 1102; 1168; 1577; 1900; 2138; 2381; 2473; 2494; 2578; 3154; 4563; 5008; 5054; 5112; 5145
Sau3AI	!GATC	27	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2502; 2528; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	956; 2277; 3099; 3531
SchI	!NNNNNGACTC	6	404; 598; 2692; 3106; 4712; 5589
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	26	90; 283; 932; 999; 1406; 1674; 1961; 2165; 2214; 2309; 2324; 2453; 2562; 3583; 3638; 3655; 4051; 4211; 4434; 4824; 5013; 5116; 5588; 5806; 5819; 5940
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	2419; 3625; 3697; 3866; 5808
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	7	831; 909; 1031; 1071; 1651; 4202; 4687
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	2	279; 843
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	2	245; 809
SduI	GDGCH!C	19	620; 818; 909; 1086; 1161; 1248; 1506; 1589; 2045; 2072; 2105; 3238; 3993; 4086; 4160; 4350; 4412; 5122; 5655
SelI	!CGCG	19	58; 779; 1368; 1537; 1930; 2694; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920
SetI	ASST!	94	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 716; 815; 852; 864; 894; 943; 955; 1000; 1014; 1047; 1140; 1161; 1191; 1203; 1257; 1286; 1323; 1364; 1382; 1410; 1429; 1506; 1515; 1686; 1738; 1912; 1962; 2004; 2031; 2127; 2177; 2198; 2349; 2355; 2484; 2502; 2514; 2553; 2577; 2621; 2625; 2640; 2683; 2737; 2758; 2767; 2779; 2828; 2995; 3110; 3122; 3165; 3202; 3252; 3275; 3399; 3547; 3642; 3835; 3948; 4076; 4155; 4166; 4238; 4309; 4353; 4613; 4759; 4803; 5134; 5165; 5224; 5267; 5410; 5431; 5530; 5667; 5682; 5701; 5713; 5757; 5803; 5854
SexAI	A!CCWGGT	2	1404; 3636
SfaI	GCGAT!CGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfaNI	GCATCNNNNN!	8	1305; 2226; 2863; 3626; 3698; 4346; 4410; 4685
SfaNI	!NNNNNNNNNGATGC	8	357; 1185; 2379; 2547; 4005; 4260; 4476; 5868
SfcI	C!TRYAG	4	1759; 3382; 5509; 5700
SfiI	GGCCNNNN!NGGCC	1	3822
SfoI	GGC!GCC	1	4048
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	2	627; 4729
SgeI	CNNGNNNNNNNNN!	237	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 677; 724; 770; 792; 830; 844; 866; 894; 937; 966; 1010; 1036; 1055; 1087; 1105; 1118; 1156; 1183; 1201; 1231; 1246; 1259; 1285; 1318; 1342; 1375; 1392; 1407; 1437; 1471; 1486; 1534; 1550; 1577; 1669; 1685; 1704; 1723; 1741; 1762; 1792; 1822; 1847; 1881; 1894; 1909; 1926; 1943; 1959; 1972; 1991; 2011; 2029; 2047; 2077; 2101; 2119; 2134; 2176; 2191; 2215; 2234; 2258; 2271; 2299; 2320; 2335; 2362; 2384; 2417; 2437; 2450; 2464; 2482; 2495; 2512; 2525; 2545; 2566; 2587; 2600; 2638; 2661; 2682; 2707; 2754; 2783; 2825; 2908; 2982; 3066; 3088; 3120; 3157; 3175; 3194; 3209; 3251; 3268; 3285; 3320; 3334; 3351; 3373; 3397; 3421; 3486; 3500; 3538; 3554; 3594; 3607; 3626; 3649; 3666; 3679; 3698; 3728; 3749; 3766; 3789; 3824; 3851; 3882; 3904; 3930; 3952; 3971; 3999; 4035; 4054; 4077; 4091; 4111; 4124; 4138; 4157; 4171; 4190; 4222; 4236; 4249; 4275; 4306; 4319; 4336; 4353; 4367; 4384; 4402; 4417; 4445; 4461; 4480; 4502; 4518; 4541; 4560; 4585; 4604; 4624; 4651; 4675; 4708; 4727; 4755; 4769; 4835; 4859; 4874; 4897; 4918; 4935; 4983; 5010; 5024; 5053; 5077; 5110; 5127; 5147; 5160; 5173; 5231; 5258; 5277; 5307; 5332; 5352; 5366; 5391; 5409; 5446; 5484; 5513; 5541; 5555; 5575; 5590; 5611; 5625; 5644; 5662; 5678; 5718; 5738; 5765; 5783; 5804; 5817; 5830; 5847; 5871; 5894; 5926; 5951; 5978; 6000
SgeI	!NNNNNNNNNNNNNCNNG	210	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 651; 698; 744; 766; 804; 827; 845; 868; 911; 940; 984; 1010; 1029; 1061; 1079; 1130; 1157; 1175; 1205; 1233; 1259; 1292; 1316; 1349; 1366; 1391; 1411; 1445; 1470; 1508; 1526; 1551; 1643; 1660; 1678; 1697; 1715; 1736; 1766; 1796; 1821; 1855; 1883; 1900; 1917; 1938; 1965; 1985; 2003; 2021; 2051; 2075; 2093; 2117; 2150; 2189; 2208; 2232; 2273; 2294; 2336; 2358; 2391; 2411; 2438; 2456; 2477; 2499; 2519; 2540; 2561; 2585; 2612; 2635; 2656; 2681; 2728; 2757; 2799; 2882; 2956; 3040; 3062; 3094; 3131; 3149; 3168; 3225; 3242; 3259; 3294; 3312; 3332; 3352; 3371; 3395; 3460; 3512; 3568; 3600; 3623; 3640; 3672; 3702; 3723; 3740; 3763; 3798; 3825; 3856; 3878; 3904; 3926; 3945; 3973; 4009; 4028; 4051; 4072; 4090; 4107; 4131; 4164; 4196; 4223; 4249; 4280; 4310; 4327; 4353; 4376; 4397; 4419; 4439; 4459; 4476; 4515; 4534; 4559; 4578; 4598; 4625; 4649; 4682; 4701; 4729; 4751; 4809; 4833; 4852; 4871; 4892; 4909; 4957; 4984; 5004; 5027; 5051; 5084; 5101; 5121; 5147; 5205; 5232; 5251; 5281; 5306; 5326; 5365; 5383; 5420; 5458; 5487; 5515; 5536; 5564; 5585; 5618; 5636; 5692; 5712; 5739; 5757; 5778; 5804; 5821; 5845; 5868; 5900; 5925; 5952; 5974; 6003
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	1	779
SimI	GG!GTC	6	27; 1057; 1183; 3194; 4981; 5774
SimI	!GACCC	4	106; 4475; 5043; 5291
SinI	G!GWCC	6	862; 1057; 1900; 2578; 4563; 5008
Slal	C!TCGAG	1	613
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	365; 1073; 1457; 1991; 2021; 4484
SmlI	C!TYRAG	10	613; 619; 1363; 2513; 2552; 2929; 4438; 5320; 5597; 5859
SmoI	C!TYRAG	10	613; 619; 1363; 2513; 2552; 2929; 4438; 5320; 5597; 5859
SmuI	CCCGNNNN!	10	93; 119; 286; 2446; 2548; 3369; 3724; 3745; 4941; 5073
SmuI	!NNNNNNNGCGGG	6	2483; 3300; 4170; 4707; 4845; 4992
SnaBI	TAC!GTA	1	340

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3617; 3689; 4452
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	18; 629; 1705; 1720; 2797; 2861; 2939; 2965; 2976; 3623; 3695; 3787; 5205
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	3	1945; 2417; 3868
SsiI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 879; 1717; 1930; 2301; 2439; 2541; 2694; 3362; 3365; 3379; 3469; 3717; 3729; 3738; 3750; 3760; 3771; 3817; 3956; 4019; 4521; 4566; 4632; 4658; 4783; 4786; 4934; 5066; 5373; 5517; 6013
SsiI	G!CGG	31	370; 403; 528; 1269; 1370; 1602; 1970; 2136; 2448; 2490; 2690; 3307; 3334; 3422; 3532; 4113; 4177; 4278; 4281; 4561; 4616; 4714; 4852; 4999; 5139; 5382; 5627; 5748; 5767; 5894; 5922
SspI	AAT!ATT	2	2955; 3508
SspDI	G!GCGCC	1	4046
SspD5I	GGTGANNNNNNNN!	10	376; 839; 971; 1267; 1706; 2005; 2374; 2684; 5118; 5234
SspD5I	!NNNNNNNNNTCACC	4	1631; 2262; 3163; 4224
SstI	GAGCT!C	3	620; 1161; 1506
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	2307
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	1	1294
Sth132I	CCCGNNNN!	20	92; 118; 285; 1842; 2229; 2445; 2547; 2568; 3246; 3368; 3723; 3744; 4057; 4460; 4599; 4670; 4940; 5072; 5302; 5740
Sth132I	!NNNNNNNNCCGGG	23	15; 407; 470; 1171; 1225; 2205; 2278; 2482; 3247; 3299; 3400; 4127; 4169; 4202; 4706; 4815; 4844; 4991; 5095; 5126; 5579; 5623; 5831
Sth302II	CC!GG	22	602; 785; 1792; 1980; 2214; 2563; 3266; 3953; 4030; 4052; 4080; 4211; 4301; 4368; 4549; 4824; 4832; 4924; 5398; 5588; 5614; 5761
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	4	3915; 4372; 4397; 4851
StsI	!NNNNNNNNNNNNNNNNCATCC	6	1282; 1321; 2058; 2146; 2203; 3719
StuI	AGG!CCT	3	1945; 2417; 3868
StyI	C!CWWGG	9	360; 757; 840; 1473; 1989; 3776; 3869; 4479; 4884
StyD4I	!CCNGG	26	88; 281; 930; 997; 1404; 1672; 1959; 2163; 2212; 2307; 2322; 2451; 2560; 3581; 3636; 3653; 4049; 4209; 4432; 4822; 5011; 5114; 5586; 5804; 5817; 5938
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 969; 2047; 3138; 4427; 4543; 4651; 4974; 5465; 5935; 6006
TaiI	ACGT!	22	125; 137; 178; 261; 342; 447; 1014; 1047; 1191; 1429; 1515; 2349; 2577; 2625; 3110; 3122; 3165; 3275; 4166; 4353; 5134; 5267
TaqI	T!CGA	18	614; 627; 1317; 1827; 2130; 2157; 2625; 3196; 3887; 4160; 4316; 4340; 4376; 4538; 4729; 4774; 5029; 5867
TaqII	GACCGANNNNNNNNNN!	3	3067; 4084; 4752
TaqII	!NNNNNNNNNTCGGTC	1	4996
TaqII	CACCCANNNNNNNNNN!	1	2120
TaqII	!NNNNNNNNNTGGGTG	4	172; 815; 3951; 4543
TasI	!AATT	13	18; 629; 1705; 1720; 2797; 2861; 2939; 2965; 2976; 3623; 3695; 3787; 5205
TatI	W!GTACW	6	217; 297; 330; 381; 1095; 2031
TauI	GCSG!C	22	1272; 1719; 1932; 2139; 2451; 2693; 2696; 3367; 3381; 3819; 3958; 4021; 4116; 4281; 4284; 4523; 4619; 4660; 4788; 5142; 5770; 5925
TfiI	G!AWTC	8	921; 2118; 2595; 4532; 4666; 4776; 4813; 5991
TliI	C!TCGAG	1	613
TruII	T!TAA	21	7; 696; 703; 799; 1530; 2007; 2232; 2748; 2809; 2930; 2951; 2962; 2974; 2985; 3002; 3100; 3371; 5190; 5204; 5209; 5261
Tru9I	T!TAA	21	7; 696; 703; 799; 1530; 2007; 2232; 2748; 2809; 2930; 2951; 2962; 2974; 2985; 3002; 3100; 3371; 5190; 5204; 5209; 5261
TscAI	CASTGNN!	9	909; 1346; 1579; 1587; 2893; 4176; 5286; 5557; 5570
TseI	G!CWGC	23	636; 685; 1002; 1632; 1865; 1926; 1938; 2187; 2331; 2629; 2823; 3342; 4007; 4108; 4150; 4191; 4284; 4671; 5124; 5350; 5556; 5559; 5624

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TsoI	TARCCANNNNNNNNNNNN!	3	1906; 3019; 3366
TsoI	!NNNNNNNNNTGGYTA	4	1676; 2156; 2824; 4576
Tsp45I	!GTSAC	7	827; 1694; 2269; 2465; 3336; 4167; 4473
Tsp509I	!AATT	13	18; 629; 1705; 1720; 2797; 2861; 2939; 2965; 2976; 3623; 3695; 3787; 5205
TspDTI	ATGAANNNNNNNNNNNN!	6	978; 1890; 2039; 2805; 4106; 4810
TspDTI	!NNNNNNNNNTTCAT	10	26; 639; 785; 901; 1438; 2167; 2188; 4524; 4980; 5187
TspEI	!AATT	13	18; 629; 1705; 1720; 2797; 2861; 2939; 2965; 2976; 3623; 3695; 3787; 5205
TspGWI	ACGGANNNNNNNNNNNN!	2	1448; 4922
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	9	909; 1346; 1579; 1587; 2893; 4176; 5286; 5557; 5570
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	1	876
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	1	908
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	3	860; 1181; 4165
Tth111II	CAARCANNNNNNNNNNNN!	4	695; 1745; 2219; 5374
Tth111III	!NNNNNNNNNTGYTTG	3	4482; 5342; 5381
UnbI	!GGNCC	19	82; 275; 861; 1056; 1101; 1167; 1576; 1899; 2137; 2380; 2472; 2493; 2577; 3153; 4562; 5007; 5053; 5111; 5144
Van91I	CCANNNN!NTGG	1	2587
Vha464I	C!TTAAG	1	2929
VneI	G!TGCAC	2	2068; 5651
VpaK11AI	!GGWCC	6	861; 1056; 1899; 2577; 4562; 5007
VpaK11BI	G!GWCC	6	862; 1057; 1900; 2578; 4563; 5008
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	629; 2861; 2965; 2976
XbaI	T!CTAGA	1	2701
XceI	RCATG!Y	6	2020; 2466; 3617; 3689; 4452; 5969
XcmI	CCANNNNN!NNNTGG	1	1571
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	13	585; 609; 1390; 1604; 1972; 2528; 4218; 4464; 4856; 5215; 5227; 5313; 5324
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3869; 4884
XmiI	GT!MKAC	3	1374; 1410; 2568
XmnI	GAANN!NNTTC	1	1705
XspI	C!TAG	9	592; 1737; 2702; 2896; 3314; 3870; 4885; 5219; 5472
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3619; 3691; 6022